Approved For Release 2008/09/10 : CIA-RDP78B03826A000400050025-9

TOP SECRET PRIORITY

1971 APR 2 23 24Z

P 022250Z
FM NPIC
[redacted] 25X1

OUT: 72026

AFSSO PACAF
AFSSO ACIC
AFSSO FTD
AFSSO USAFE
CNO
OPCEN
FICEUR
[redacted] 25X1
ZEM
T O P S E C R E T TTTTT [redacted] CITE NPIC 0629 25X1
[redacted] ALSO FOR 544 ARTW. 25X1
SUBJECT: CAMERA INFORMATION FOR MISSION 1114-1.

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS, DUAL STELLAR CAMERAS AND AN INDEX CAMERA.
2. CAMERA DATA
   A. MAIN UNITS

FOCAL LENGTHS (MM)	PAN CAMERAS	PORT HORIZONS	STBD HORIZONS
FWD	609.716	55.056	55.206
AFT	609.577	55.013	55.155

FILTERS

PAN FWD	PRIMARY	W-25	.037 GLASS (INCHES)
PAN FWD	ALTERNATE	W-25	.040 GLASS
PAN AFT	PRIMARY	W-23	.037 GLASS
PAN AFT	ALTERNATE	W-23	.040 GLASS
FWD STBD	HORIZON	W-25	
FWD PORT	HORIZON	W-25	
AFT STBD	HORIZON	W-25	
AFT PORT	HORIZON	W-25	

APERTURE
STBD HORIZON F/8.0
PORT HORIZON F/6.3
FILM
FWD 3414/3404/3414
AFT 3414/3404/3414
DYNAMIC RESOLUTION
FWD HIGH CONTRAST 255
FWD LOW CONTRAST 168
AFT HIGH CONTRAST 272
AFT LOW CONTRAST 164
UNIT NUMBER FWD 329 AFT 328

   B. DISIC UNIT NO. 1R

	PORT STELLAR	STBD STELLAR	INDEX
FOCAL LENGTHS (MM)	76.391	75.937	75.977
FILTER (WRATTEN)	NONE	NONE	W-12
EXPOSURE (SEC)	1.5	1.5	1/500
FILM	3401	3401	3400

3. LENS DISTORTION (PIN CUSHION) (MM)
   A. MAIN UNITS
   ANGLE OFF AXIS (DEG) 3 2 1 0 359 358

DISTRIBUTION

CY	OFFICE	PI
1	FILE	
2	CABLE SEC.	
	FF&E/RD	
	SECUR.	
4	TSSG/[redacted]3	
5	T3C/DAB	
	PSG/OC	
3	RED/TDB	
	RE/RO	
	[redacted]	
	[redacted]	
	[redacted]	
	[redacted]	
	[redacted]	
	[redacted]	
	[redacted]	
	[redacted]	
	[redacted]	
	DIA-EM4	
	SPAD	
	DIA-EP	
	[redacted] 25X1	
	CMA	

[redacted] 25X1

TOP SECRET

Approved For Release 2008/09/10 : CIA-RDP78B03826A000400050025-9

Approved For Release 2008/09/10 : CIA-RDP78B03826A000400050025-9

FWD	4	3	1	Ø	Ø	Ø	2
AFT	1	Ø	Ø	Ø	Ø	Ø	1

B. HORIZON CAMERA DISTORTION

	FWD PORT	FWD STBD	AFT PORT	AFT STBD
RADIAL 1Ø DEG	.Ø	.Ø1	.Ø1	.Ø4
2Ø DEG	.Ø3	.Ø37	.Ø27	.12
TANGENTIAL	.Ø11	.Ø11	.Ø05	.Ø1

4. CAMERA ANGLES

A. ANGLE BETWEEN PAN CAMERAS 3Ø DEG 37 MIN 43.87 SEC

B. DEPRESSION ANGLES BETWEEN HORIZONS AND PAN CAMERAS

FWD PORT	14 DEG	31 MIN	21.94 SEC
FWD STBD	15 DEG	ØØ MIN	48.33 SEC
AFT PORT	14 DEG	29 MIN	31.99 SEC
AFT STBD	14 DEC	19 MIN	Ø5.49 SEC

C. ANGLES BETWEEN STELLAR AND INDEX CAMERA

STBD STELLAR AND INDEX	99DEG	54MIN	55.2Ø85SEC
PORT STELLAR AND INDEX	98DEG	57MIN	Ø2.5793SEC

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 2ØØ CYCLES PER SECOND.

6. IMAGE MOTION COMPENSATION DATA

PASSES	REF LEVEL	AMP LEVEL
1D,22D,35D THRU 38D	1	13
6D,39D THRU 41D	1	14
7D,9AE,9D,23D THRU 25D	2	14
32D	1	12
48D	1	15
51D THRU 53D	2	1
54D THRU 57D	3	1
7ØD THRU 72D	4	2
73D THRU 88D	4	3
89D THRU 97D	4	4
1Ø3D	3	4

FOR ALL PASSES PRIMARY PERIOD 4188 SECONDS, SECONDARY PERIOD 2624, SECONDARY RAMP FACTOR Ø.Ø569ØØ

7. PROGRAM TIME DATA

PASS	CAMERA ON TIME (ZULU TIME) DAY	HR	MIN	SEC	PROGRAM ON TIME UP RAMP SEC	PROGRAM DURATION SEC
1D	24	22	32	14	1680	38
6D	25	Ø6	Ø2	Ø1	2316	127
7D	25	Ø7	26	24	2068	67
9AE	25	1Ø	Ø1	Ø1	722	26
9D	25	1Ø	21	15	1936	157
22D	26	Ø5	36	49	2278	352
23D1	26	Ø7	Ø2	Ø9	2Ø93	84
23D2	26	Ø7	Ø4	44	2249	49
23D3	26	Ø7	Ø6	14	2339	84
24D1	26	Ø8	28	42	1982	181
24D2	26	Ø8	32	Ø7	2186	54
25D	26	Ø9	58	28	2Ø64	73
32D	26	2Ø	23	41	2250	52
35D	27	ØØ	4Ø	13	1853	125
36D	27	Ø2	Ø9	22	1748	91
37D	27	Ø3	42	39	2Ø33	146
38D	27	Ø5	13	41	2183	295
39D1	27	Ø6	38	21	1950	45
39D2	27	Ø6	42	1Ø	2179	49

Approved For Release 2008/09/10 : CIA-RDP78B03826A000400050025-9

Approved For Release 2008/09/10 : CIA-RDP78B03826A000400050025-9

40D1	27	08	04	02	1781	307
40D2	27	08	11	07	2206	55
41AE	27	09	26	01	1387	31
41D	27	09	35	11	1938	66
48D	27	20	01	09	2331	53
51D	28	00	18	02	1798	104
52D	28	01	45	28	1725	190
53D1	28	03	14	52	1770	120
53D2	28	03	20	08	2086	134
54D1	28	04	42	30	1703	67
54D2	28	04	45	07	1859	92
54D3	28	04	52	02	2275	119
55D	28	06	16	26	2025	126
56D	28	07	45	39	2058	289
57D1	28	09	10	19	1818	126
57D2	28	09	13	08	1987	60
70D1	29	04	27	34	2275	110
70D2	29	04	30	16	2437	109
70D3	29	04	34	05	2665	54
71D1	29	05	51	28	1853	109
71D2	29	05	54	34	2039	102
72D1	29	07	23	39	2067	78
72D2	29	07	26	20	2228	180
73D	29	08	52	31	2083	50
74D	29	10	22	43	2230	66
86D1	30	04	05	23	2176	150
86D2	30	04	08	22	2355	103
87D1	30	05	33	10	2131	50
87D2	30	05	40	28	2568	120
88D	30	07	00	35	2064	91
89D	30	08	29	41	2098	92
90D1	30	10	00	18	2274	97
90D2	30	10	06	54	2670	61
97D	30	20	23	18	2433	65
103D	31	05	15	20	2454	235

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
9	149943.004	35872.4617	----
16	188763.815	74693.2701	.002
25	234897.900	34427.3516	.003
32	273737.137	73266.5852	.003
41	319950.683	33080.1268	.004
48	358807.275	71936.7146	.004
57	405075.761	31805.1952	.005
64	443990.750	70720.1792	.005
73	490203.535	30532.9578	.006
81	534350.314	74679.7302	.007
89	38446.420	29246.7416	.006
97	82501.770	73302.0841	.007
106	128699.537	33099.8427	.008

NOTE: ALL "DIFFERENCE" VALUES ARE PLUS

25X1

T O P S E C R E T END OF MESSAGE GROUP ONE

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